

OFTEC

DDF 160-MB-3000



OFTEC

Established in 1996 by Christian Streck, OFTEC GmbH is a SME sized company based in one of the industrial centers of Germany.

Main business area of OFTEC is development of industrial level robotic systems for paint and coating removal driven by UHP or heat induction systems.

Robotic crawler systems for industrial grade surface preparation are the foundation of OFTEC business. Operator protection by wireless remote control in combination with highly efficient processing of abrasive materials and liquid filtering by OFTEC technologies helps to reduce waist and machine downtimes.

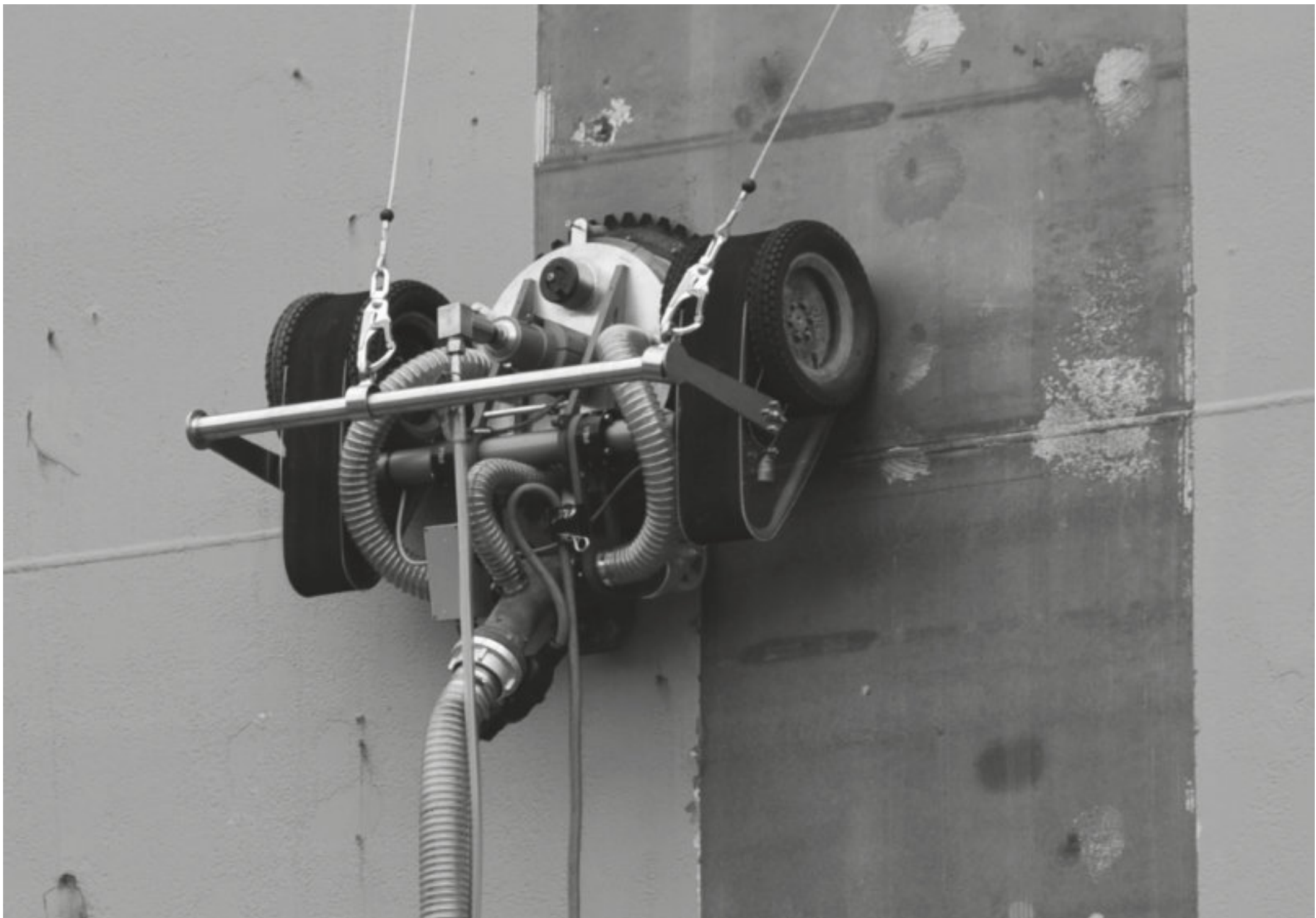
During large scale paint and coating removal projects stages in industrial environments automated system technology by OFTEC is economically more effective than manual work.

OFTEC crawler systems are available for rental and sales. Crawler are used in combination with UHP systems or heat induction systems for shipyards, offshore, storage tanks/chemical industry, public bridges and

power plant applications. The magnet-crawler-robots are used for removal of coating or paint on metal surfaces.

Robots are remotely controlled by an operator from a safe position. By adaptation to various UHP pumps up to 3.000 bar in combination with our own nozzle layout and technology to remove the waste we are able to provide a complete range of equipment tailored for specific applications. The crawler system might be used also for other applications as cutting, blasting and inspection work. Held by magnetic forces the robotic system will work in all directions and might also be adapted to work inside of pipelines/tubes.

OFTEC magnet-crawler-based robotic systems are the preferred solution for coating removal at demanding surfaces and materials.



Magnet - Crawler

The Magnet Crawler is a carrier vehicle. It consists of an aluminium lightweight construction. The carrier construction includes two drive units. By magnetic force the Crawler is held on the steel surfaces to be treated. The magnets that are used are encapsulated in seawater resistant stainless steel and have a high adhesion force. This enables, among others, the work with high water pushback forces.

The electric (optionally pneumatic) drives enable an infinitely variable drive speed. The control is done via a remote control.

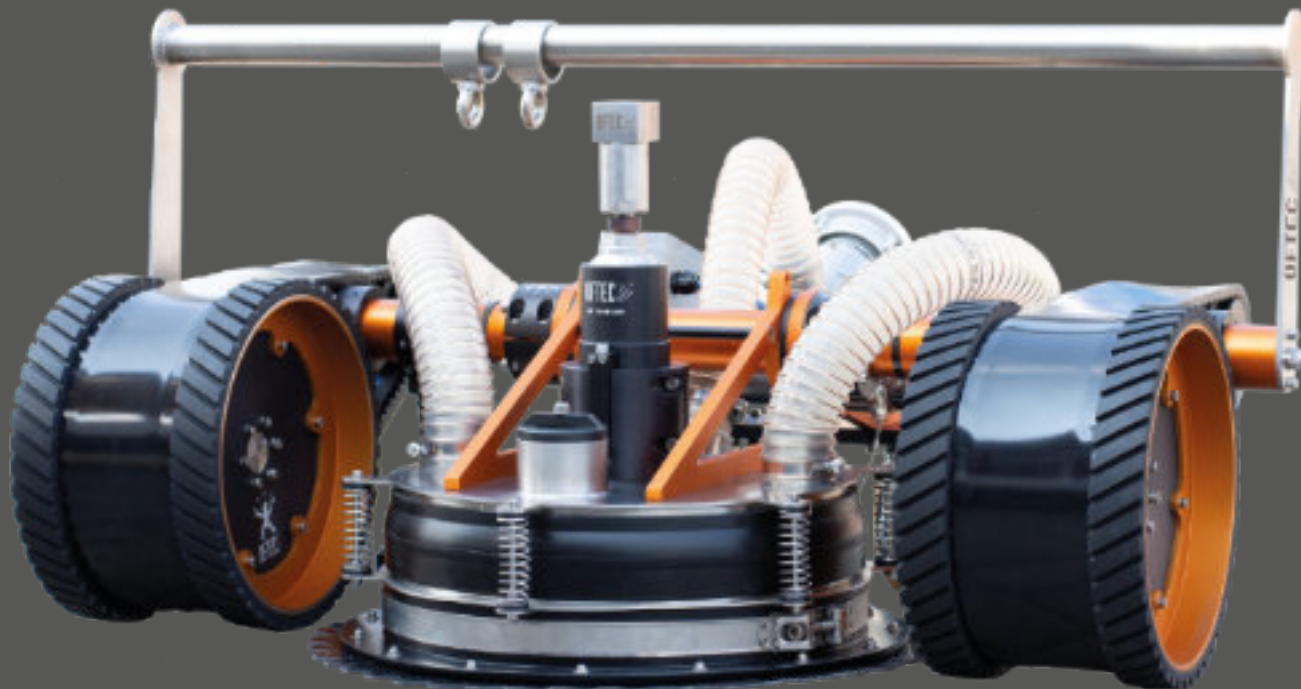
Applications

Actually the crawler is mainly used for cleaning of large tanks and ships in combination with high-pressure water up to 3000 bar. Optionally the waste water can be collected directly in combination with the removed material, this might be recycled on request with an additional filter system by OFTEC. Furthermore, there is an option to use the crawler for other applications, e.g. cutting, blasting and inspection (camera) work.

Advantages

Scaffolding of objects becomes unnecessary subsequently saving time and costs. Because the crawler is operated and controlled remotely, continuous and fast workflows are possible. Using a crawler in combination with high-pressure water will increase the working speed in comparison to a handheld tool by the factor of five. While it is possible to work from a greater distance in addition operator safety is ensured.





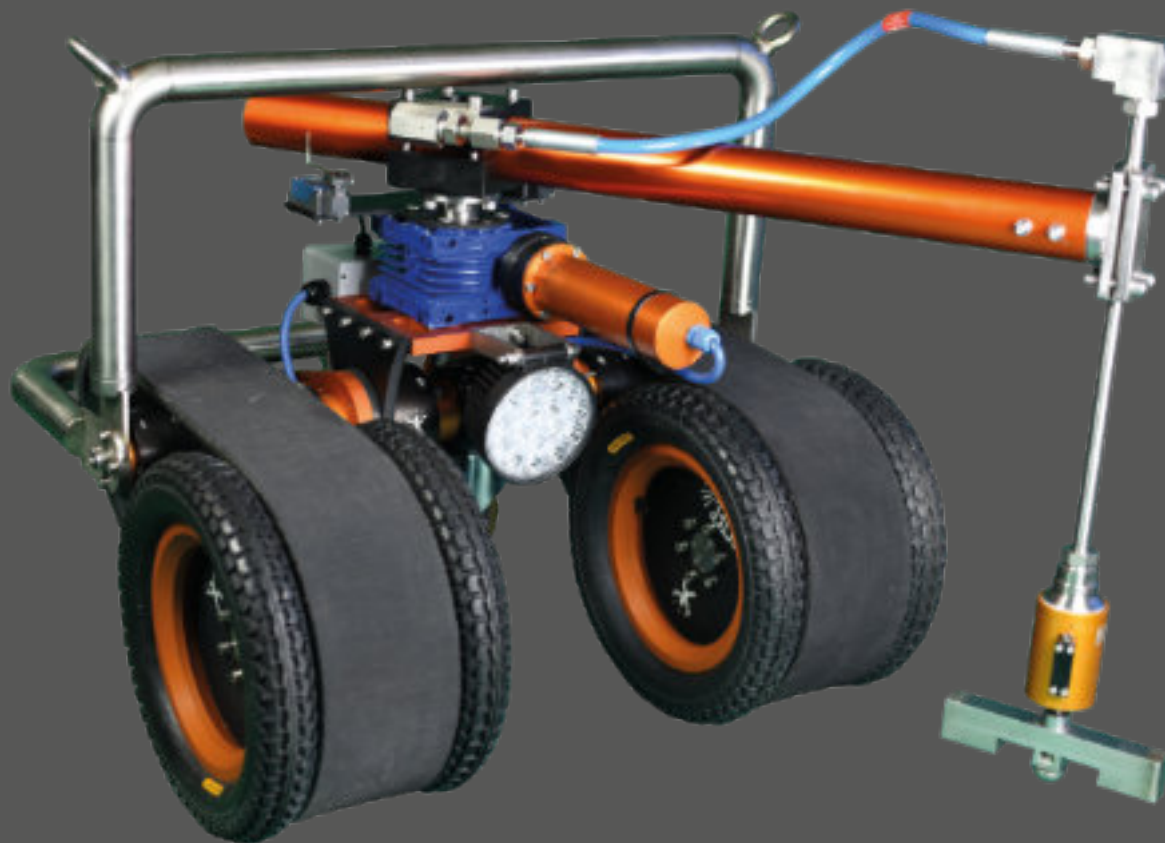
VacuMag 3000

Technical Data VacuMag 3000

Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	up to 400 mm
Magnets:	Permanet magnets, encapsulated
Operation voltage, motors:	36 V
Weight robot:	app. 104 kg
Dimensions:	H 590 mm x W 1150 mm x D 950 mm
Control system:	Switchbox on carriage in stainless steel Radio remote control incl. 50 m cable

Weight Control box:	app. 80 kg, incl. 50 m cable
Dimensions:	H 1200 mm x W 600 mm x D 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65





UniMag 3000



Technical Data UniMag 3000

Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	up to 170 mm
Swing boom:	up to 1500 mm
Magnets:	Permanet magnets, encapsulated
Operation voltage, motors:	36 V
Weight robot:	app. 94 kg
Dimensions:	H 680 mm x W 780 mm x D 680 mm
Control system:	Switchbox on carriage in stainless steel Radio remote control incl. 50 m cable

Weight Control box:	app. 83 kg, incl. 50 m cable
Dimensions:	H 1200 mm x W 600 mm x D 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65

Technical UniMag 3000 Sandblasting

Operation with any kind of blasting media
Brackets for 1 - 3 sandblasting nozzle possible
Up to 500 kN



Cube S3

Technical Data Cube S3

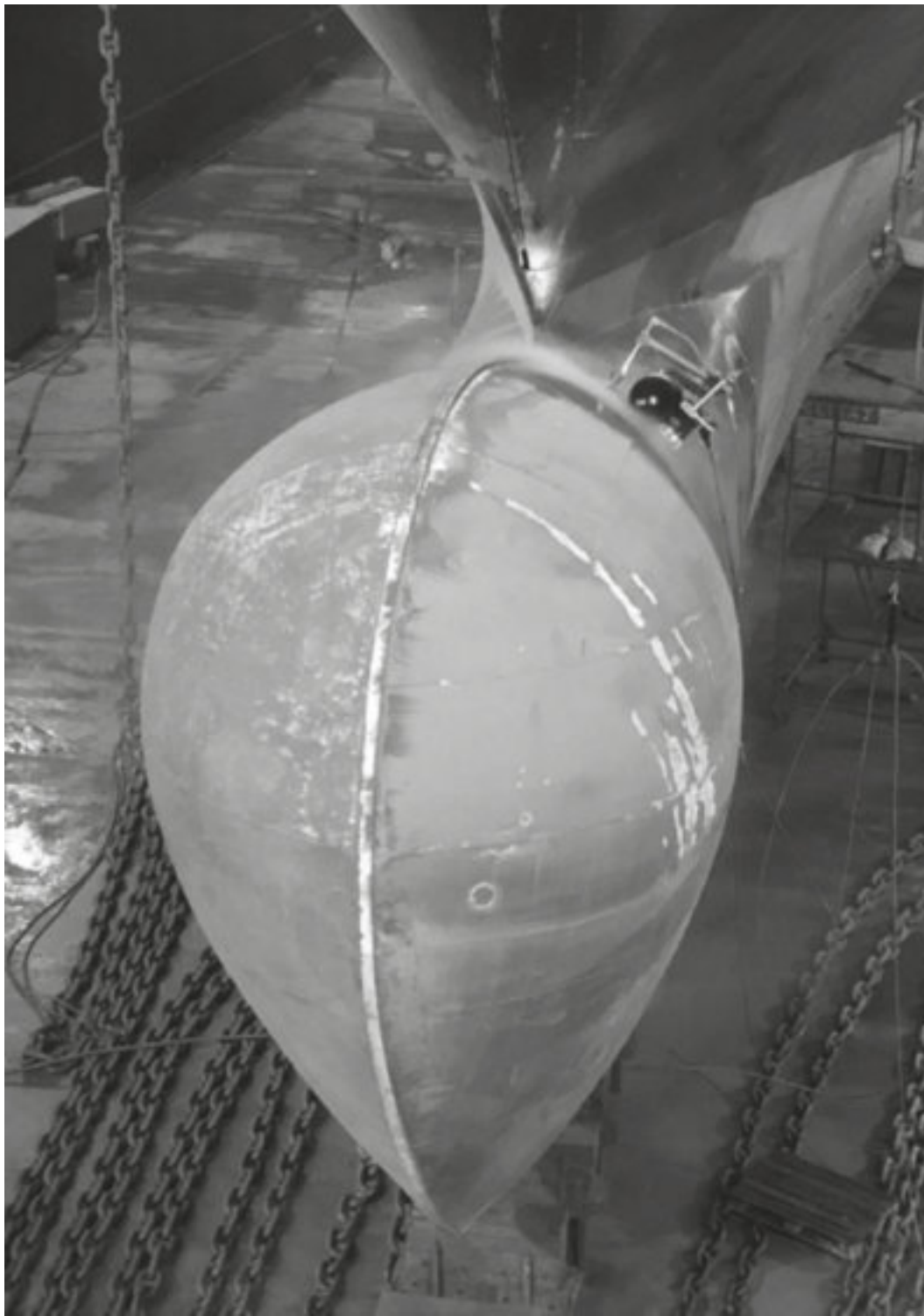
Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	up to 170 mm
Swing boom:	up to 1500 mm
Lifting adjustment:	high 400 mm / deep 250 mm
Magnets:	Permanet magnets, encapsulated
Operation voltage, motors:	36 V
Weight robot:	app. 72 kg
Dimensions:	H 680 mm x W 780 mm x D 680 mm
Control system:	Switchbox on carriage in stainless steel Radio remote control incl. 50 m cable

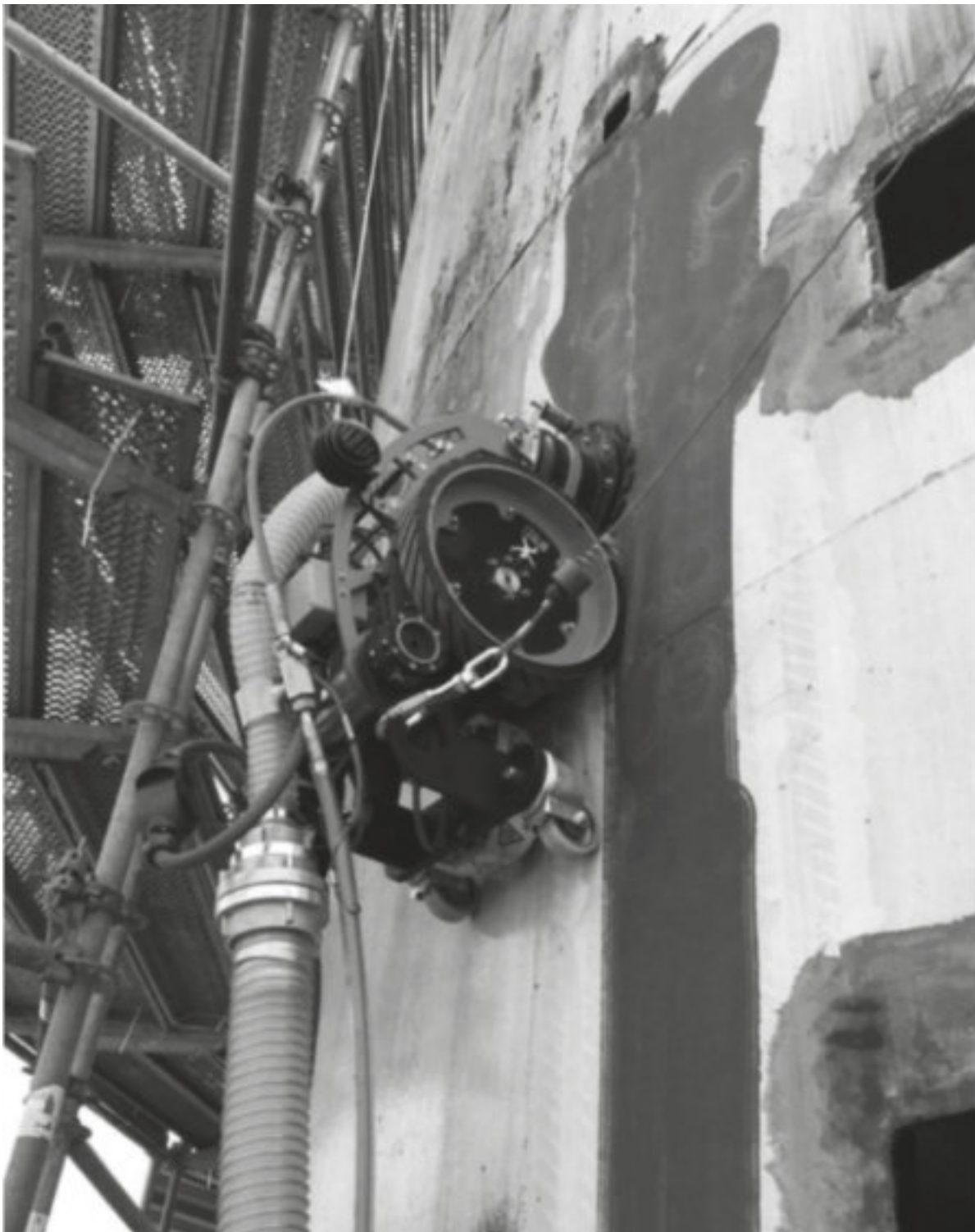
Weight Control box:	app. 86 kg, incl. 50 m cable
Dimensions:	H 1200 mm x W 600 mm x D 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65

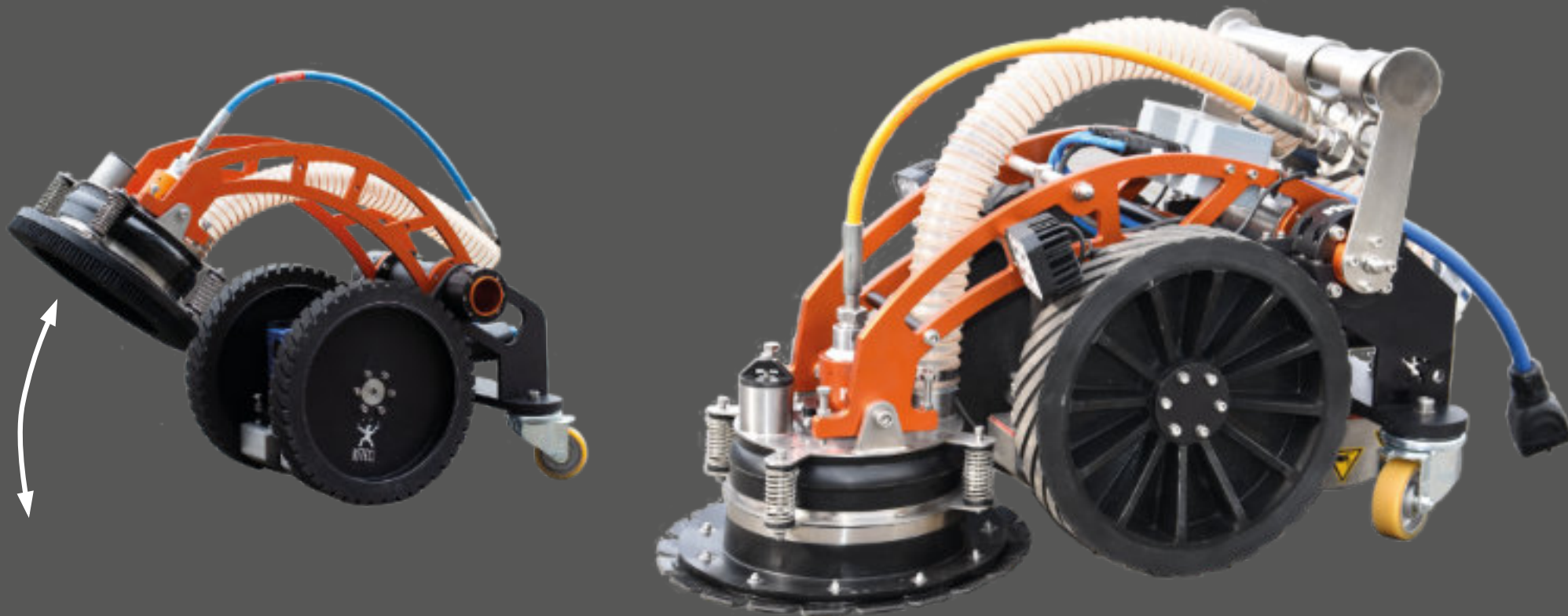
Technical Data Cube S3 Sandblasting

Operation with any kind of blasting media
Brackets for 1 - 3 sandblasting nozzle possible
Up to 500 kN









Cube V3

Technical Data Cube V3

Working pressure: up to 2500 bar / 45 l/min.
up to 3000 bar / 30 l/min.

Working width: 200 mm

Magnets: Permant magnets, encapsulated

Operation voltage, motors: 36 V

Weight robot: app. 72 kg

Dimensions: H 700 mm x W 390 mm x D 680 mm

Control system: Switchbox on carriage in stainless steel
Radio remote control incl. 50 m cable

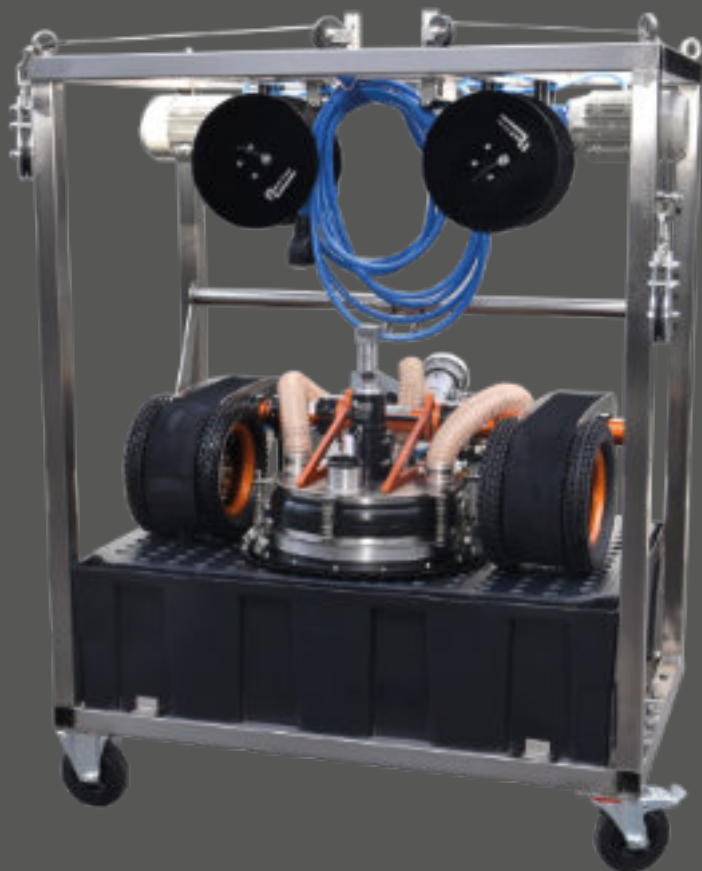
Weight Control box: app. 86 kg, incl. 50 m cable

Dimensions: H 1200 mm x W 600 mm x D 600 mm

Electrical CEE plug: 110 - 230 V

IP protection class: IP 65





WINCH SYSTEM

Operation voltage,

motors: 36 V

Weight: app. 178 kg

Dimensions: H 1780 mm x W 1031 mm x D 810 mm



REMOTE CONTROL

Radio remote control for
easy workflow management

ROBOTICS ACCESSORIES



CONVERSION SET SA 3

Transforming CUBE V3 into
a CUBE S3 robotic solution for open water tooling

- Electric
- max. 3000 bar – 30 l / min



RADTAL SWING ARM

The Radial swing arm allows
rotational movement for 360°
nozzle operation.

- Electric
- max. 3000 bar – 30 l / min



CONVERSION SET VC 3

Transforming CUBE S3 into
a CUBE V3 robotic system with
wastewater vacuum and separation

- Electric
- max. 3000 bar – 30 l / min



BENEFITS OF THE OFTEC CRAWLER SYSTEM



QUALITY & SERVICE

- 24/7 full service package
- Consistent high product quality
- Inhouse development and production
- Made in Germany

SECURITY

- Enables operator to work from a safe distance
- No working from scaffolding or lifting platform
- Safe and easy to all horizontal, overhead and vertical surfaces
- Sensor technology ensures that the pump switches off if contact with steel surface is lost
- Remote controlled system

PRODUCTIVITY

- Several times faster than working manually
- Reduced operator fatigue
- 24/7 work without difficulty
- Up to 40 m²/h

ON SITE SERVICE

- Project preparation and planning
- Project set up
- Equipment commissioning
- On-Off-Shore support
- Worldwide distributor network





CleanMaster 3000

Handheld Watertool

Technical Data CleanMaster 3000 L

Working pressure: up to 2500 bar / 45 l/min.
up to 3000 bar / 30 l/min.
Working width: 400 mm
Weight: app. 58 kg
Dimensions: H 110 mm x W 55 mm x L 110 mm

Technical Data CleanMaster 3000 S

Working pressure: up to 2500 bar / 45 l/min.
up to 3000 bar / 30 l/min.
Working width: 200 mm
Weight: app. 35 kg
Dimensions: H 110 mm x W 45 mm x L 110 mm





TDS 3000 MB

Typical applications

Surface preparation: Cleaning
Roughening
Removing coatings
Concrete demolishing



TDS 3000 MB

Technical Data TDS 3000 MB

Working pressure: up to 3000 bar / 45 l / min
 Speed: max 3000 1/min
 Nozzle: M10

Infinitely adjustable via magnetic Brake
 For installation in automated systems or handlance work
 Possible application
 Surface preparation: Cleaning, Roughening,
 Removing coatings & Concrete demolishing



TDS 1000 MB

Technical Data TDS 1500 MB

Working pressure: up to 1500 bar / 45 l / min
 Speed: max 3000 1/min
 Nozzle: M10

Infinitely adjustable via magnetic Brake
 For installation in automated systems or handlance work
 Possible application
 Surface preparation: Cleaning, Roughening,
 Removing coatings & Concrete demolishing

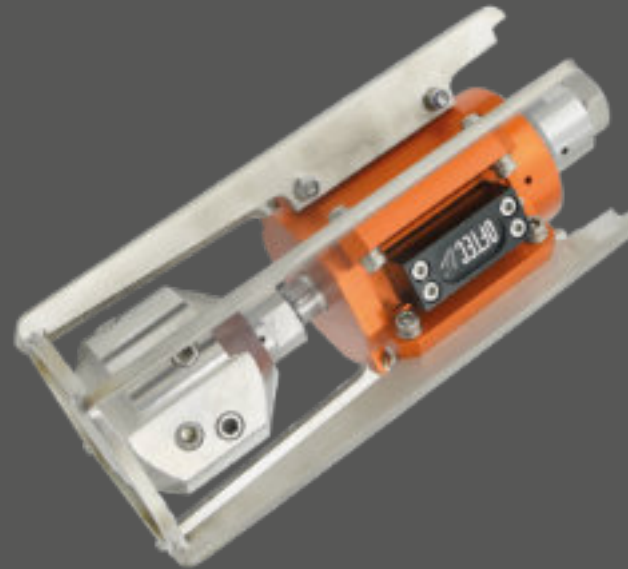


TDS 500 MB

Technical Data TDS 600 MB

Working pressure: up to 600 bar / 45 l / min
 Speed: max 3000 1/min
 Nozzle: M10

Infinitely adjustable via magnetic Brake
 For installation in automated systems or handlance work
 Possible application
 Surface preparation: Cleaning, Roughening,
 Removing coatings & Concrete demolishing



RRD 160 MB 1500/3000

Technical Data RRD 160 MB 1500/3000

Working pressure: max. 1500 bar / 160 l / min
max. 3000 bar / 45 l / min

Speed: max. 2000 l/min

Nozzle: M10

Infinitely adjustable via magnetic Brake

pipe diameter 120 mm - 300 mm

(When using a pipe cleaning carriage up to 1200 mm)

Possible application: For pipecleaning - and decoating

RRD 112 MB 1500/3000

Technical Data RRD 112 MB 1500/3000

Working pressure: max. 1500 bar / 60 l / min
max. 3000 bar / 45 l / min

Speed: max. 2000 l/min

Nozzle: M10

Infinitely adjustable via magnetic Brake

pipe diameter 90 mm - 300 mm

Possible application: For pipecleaning - and decoating





DDF 160 MB

Technical Data DDF 160 MB

Working pressure: max. 3000 bar / 45 l / min

Speed: max. 3000 l/min

Nozzle: M10

Infinitely adjustable via magnetic Brake

For installation in automated systems

Possible application: For surface cleaning - and decoating

Bundle cleaning, tank cleaning or pipe cleaning



DDF 124 L Duo

Technical Data DDF 124 L Duo

Working pressure: max. 3000 bar / 90 l / min

Speed: max. 3000 l/min

Nozzle: M10

Infinitely adjustable via air motor

Optional: electric, hydraulic or magnetic brake

For installation in automated systems

Possible application: For surface cleaning - and decoating

Bundle cleaning, tank cleaning or pipe cleaning



DDF 190 MB 1500

Technical Data DDF 160 MB

Working pressure: max. 1500 bar / 260 l / min

Speed: max. 2000 l/min

Nozzle: M10

Infinitely adjustable via magnetic Brake

Optional: electric or hydraulic

For installation in automated systems

Possible application: For surface cleaning - and decoating

Bundle cleaning, tank cleaning or pipe cleaning







Modular Suction System

The OFTEC suction system consists of several modules that can be assembled depending on the requirement/usage.

Four modules are available actually, the system is expanded continuously.

The system is intended for to suck up wet sand, blasting material, slurries and water.

The suction modules are available in pneumatic and electric version, with different outputs.

The Kontisilo is a double flap silo that empties automatically and thus makes continuous suction possible.

The absorbed wastewater is emptied into a container and will be transferred into a tank by a membrane pump. For suction of wet sand, blasting material and slurries a version with big-bag-holder is available.

By usage of jetfilter module the contaminated air absorbed together with the blasting medium will be cleaned. This is especially advantageous when absorbing media containing sand, blasting material and slurries. All available modules are made of stainless steel.





Module I - Double valve silo

Function principle: cyclone separator
 Discharge container volume: 45 litres
 Supply voltage: 230 V / 50Hz
 Control voltage: 24 V / DC
 Pneumatic operating pressure: 6 – 12 bar
 Weight: app. 135 kg
 Dimensions: H 1600 - 2000 mm x W 1000 mm x D 1200 mm
 Material: stainless steel
 Optional in pneumatic version



Module III - Air Vacuum Suction Device

Air transport volume: 1400 m³/h
 Under-pressure: p=500 mbar
 Compressor power: 8 bar at 16 m³/h
 Weight: app. 75 kg
 Dimensions: H 1000 mm x W 800 mm x D 800 mm
 Material: stainless steel



Module IV - Electric Suction Device with Jet Filter

Power: 18 KW
 Air transport volume: 1000 m³/h
 Under-pressure: p=600 mbar
 Supply voltage: 32 A
 Cleaning: automatic compressed air, cleaning cycle
 Discharge container volume: 30 l
 Supply voltage: 400 V/50 - 60 =8/Hz
 Control voltage: 24 V/DC
 Pneumatic operating pressure: 6 bar
 Weight: app. 354 kg
 Dimensions: H 1500 mm x W 830 mm x L 1850 mm
 Material: stainless steel
 Optional with H-filter

MODULAR SUCTION SYSTEM



Modular Filter System

The OFTEC filter system is based upon individual modules which can be assembled depending on the specific requirements/usage during a project. Four modules are available actually, the system is expanded continuously.

Designed for separating and cleaning paint, dirt particles and other pollutants, operation of the filter system in a process water recycling mode is possible. Usage of band filter and bag filter modules lead to separation of solid components, the filtered solids might

be small as up to 1 μm . Pollutants such as lead, PCB etc. are filtered out via activated carbon filter component of the modular filter system.



Belt filter system

Filter medium: Filter fleece roll 10 - 50 µ
 Electric CEE plug: 220 V
 IP protection class: IP 65
 Control system: Fully automatic monitoring of the filter drain
 Weight: app. 122 kg
 Dimensions: H 1350 mm x W 1100 mm x D 800 mm
 Material: stainless steel



Activated carbon filter AFS-600

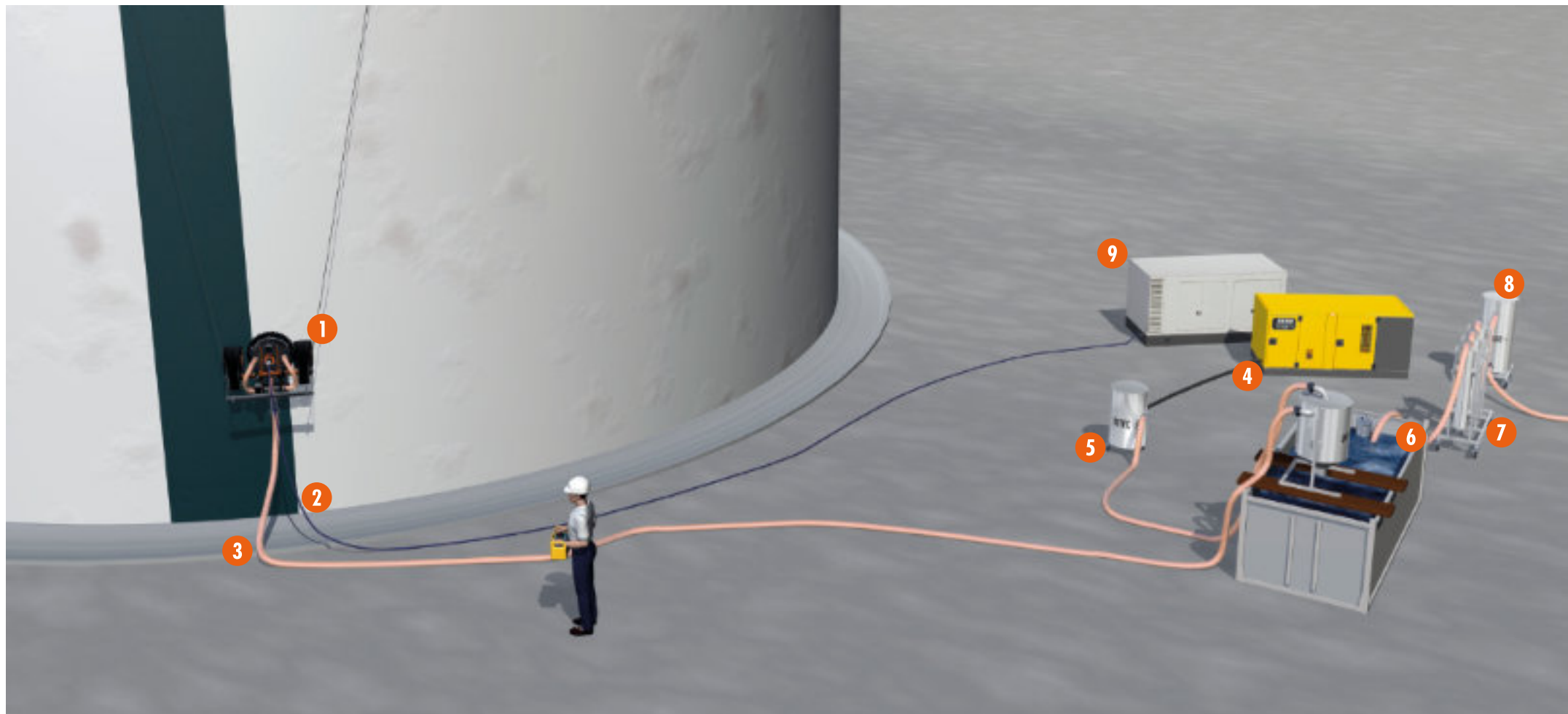
Filter : 1x Activated Carbon Water Filter
 2x Bag Water Filter
 Filter medium: Activated Carbon
 Filter medium: Bag filter 1 - 50 µ
 Weight: app. 263 kg
 Dimensions: H 1870 mm x W 1230 mm x D 1030 mm
 Material: stainless steel



Bag filter BF-80

Filter medium: Bag filter 1 - 50 µ
 Weight: app. 30 kg
 Dimensions: H 1400 mm x W 470 mm x D 450 mm
 Material: stainless steel

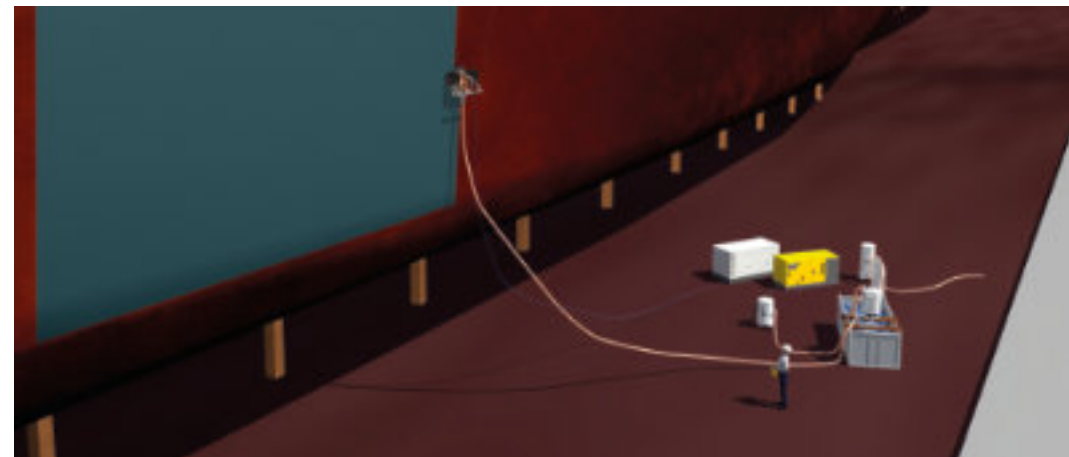
MODULAR FILTER SYSTEM



WASTE WATER TREATMENT

- | | |
|--|--|
| 1 OFTEC MAGNET CRAWLER VACUMAG 3000 | 6 WASTE WATER PUMP |
| 2 UHP HOSE | 7 OFTEC BAG FILTER SYSTEM |
| 3 WASTE WATER SUCTION HOSE | 8 OFTEC ACTIVADED CARBON FILTER |
| 4 OFTEC DOUBLE VALVE SILO | 9 UHP PUMP |
| 5 OFTEC AIR VACUUM SUCTION DEVICE | |

WASTE WATER TREATMENT





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